

## **AMENDMENT TO THE CLAIMS**

### **Listing of Claims:**

**1. (Currently Amended)** A base station, which communicates with a radio terminal, comprising:

an adaptive antenna;

a receiving condition acquisition portion for acquiring a signal from the radio terminal concerning a ~~receiving condition~~ quality of reception of said radio terminal ~~from said radio terminal~~; and

a directivity control portion for controlling the directivity of said adaptive antenna ~~based on the~~ in response to acquired signal ~~concerning the receiving condition~~ quality of reception of said radio terminal.

**2. (Currently Amended)** The base station according to claim 1,

wherein said directivity control portion sets the directivity of said adaptive antenna to be non-directional until a connection request is received from said radio terminal, and controls the directivity of said adaptive antenna at a direction in response to the quality of reception ~~based on the acquired signal concerning the receiving condition~~ of said radio terminal after receiving the connection request from said radio terminal.

**3. (New)** A base station, which communicates with a radio terminal, comprising:

an adaptive antenna;

a receiving condition acquisition portion for acquiring a signal from the radio terminal concerning a quality of reception of said radio terminal which depends on a transmission direction of a radio wave of the adaptive antenna, while changing the transmission direction of the radio wave of the adaptive antenna; and

a directivity control portion for controlling the directivity of said adaptive antenna at the transmission direction of the radio wave corresponding a signal concerning the good quality of reception among the acquired signals.

**4. (New)** A base station, which communicates with a radio terminal, comprising:  
an adaptive antenna;  
a receiving condition acquisition portion for acquiring data rate control from the radio terminal which depends on a transmission direction of a radio wave of the adaptive antenna, while changing the transmission direction of the radio wave of the adaptive antenna;  
and  
a directivity control portion for controlling the directivity of said adaptive antenna at the transmission direction of the radio wave corresponding to a good data rate control.